

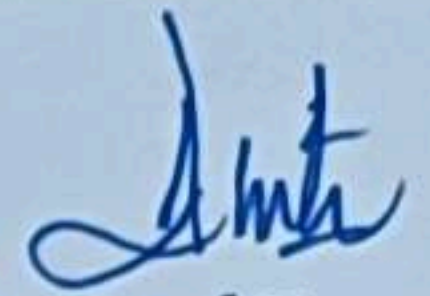
**DEPARTMENT OF CIVIL ENGINEERING**  
**GOVERNMENT POLYTECHNIC SUNDERNAGAR**

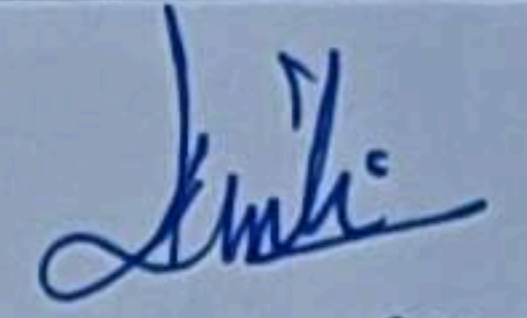
**LESSON PLAN FOR Estimating & Costing (SEMESTER-5TH)SESSION: (Aug-Dec 2025)**

S.No.	MONTH	WEEK	CONTENTS	REMARKS
1	August	Week 2	Unit I: Introduction Meaning of the terms estimating & costing. Purpose of estimating and costing Types of Estimates Approximate and Detailed Approximate estimate Types Plinth area rate method Cubic Content method Approximate Quantity method	
		Week 3	Types of detailed estimate Detailed estimate for new work Revised estimate Supplementary estimate Repair & Maintenance estimate	
		Week 4	<b>Unit II: Measurement</b> Units of measurement for various items of work as per BIS: 1200	
		Week 5	Rules for measurements. Different methods of taking out quantities—centre line method and long wall and short wall method.	
2	September	Week 1	<b>Unit III: Preparation of Detailed Estimates and Abstract of Cost</b> for One room residential building with flat roof	
		Week 2	Two room residential building with flat roof. <b>Class Test -1 Will be held this week.</b>	
		Week 3	Septic tank for 10 users	
		Week 4	<b>Unit IV: Road Estimation:</b> Preparation of Detailed Estimates and Abstract of Cost for Plain road with- mid section area method, mean sectional area method, prismoidal formula.	
		Week 5	Earth work in hill road.	
3	October	Week 1	<b>Unit V: Analysis of Rates:</b> Calculation of Quantities of Materials Cement mortars of different proportion Cement concrete of different proportion RCC work in different proportions	
		Week 2	Brick/stone masonry in cement mortar Plastering and pointing Whitewashing, painting	
		Week 3	Preparation of Detailed Analysis of Rates for finished items with given labour and rate of material : Earthwork Cement concrete of different proportion ,RCC work in different proportions . <b>Class Test - 2 Will be held this week.</b>	
		Week 4	Brick/stone masonry in cement mortar Plastering and pointing Whitewashing, painting	
		Week 5	<b>Unit VI: Contracts And Tendering :</b> Meaning of contract Qualities of a good contractor and their qualifications. Essentials of a contract Types of contracts, their advantages, dis-advantages and suitability, system of payment.	
4	November	Week 1	Single and two cover-bids Tender, tender forms and documents, tender notice, submission of tender and deposit of earnest money, security deposit, retention money, maintenance period Administrative approval, Technical sanction, Budget provision, Expenditure sanction.	
		Week 2	<b>House Test will be held this week</b>	



4	November	Week 3	Methods for carrying out works- contract method. Preparation of Tender Document based on Common Schedule Rates (CSR) Introduction to CSR and calculation of cost based on premium on CSR.	
		Week 4	Revision of Previous Year Question Papers	
		Week 5	Revision of Previous Year Question Papers	

  
 Signature of Teacher  
 (Er.Anita Joshi)

  
 Signature of H.O.D